

Name: _____ Period: _____ Date: _____

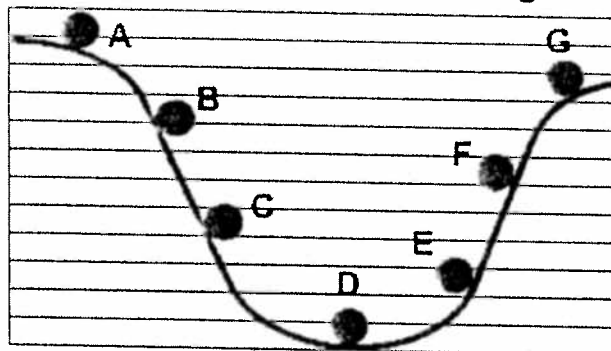
1. Most activities involve one form of energy being _____ to another form.
2. When energy transformations occur _____ energy is always produced.
3. The Law of Conservation of Energy states that energy cannot be created or _____.
4. Complete the chart for energy transformations that occur in different devices.

Device	Starting Energy	Changes to...
Battery	a.	Electrical energy
Clothes dryer	Electrical energy	b.
Car engine	Chemical energy	c.
Fireplace	d.	Heat Energy
Fan	Electrical energy	e.
Drum	f.	Sound energy

5. What is the energy transformation that occurs in a ceiling fan?
 - a) electrical to chemical
 - b) mechanical to electrical
 - c) electrical to mechanical
 - d) mechanical to thermal
6. What energy transformation is occurring in a campfire?
 - a) chemical to thermal
 - b) Chemical to mechanical and thermal
 - c) chemical to light and thermal
 - d) thermal to light
7. What energy transformation occurs in a green plant on a sunny day?
 - a) light energy to mechanical energy
 - b) light energy to chemical energy
 - c) chemical energy to light energy
 - d) chemical energy to mechanical energy
8. What energy transformation occurs when you rub your hands together?
 - a) mechanical energy to heat energy
 - b) chemical energy to heat energy
 - c) mechanical energy to chemical energy
 - d) heat energy to mechanical energy
- 9) Stored energy is
 - a) friction
 - b) kinetic energy
 - b) potential energy
 - d) gravitational energy
- 10) Which type of energy is contained in a tank of gasoline?
 - a) chemical
 - b) mechanical
 - c) electrical
 - d) thermal

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 Unit 1: Energy Kinetic versus Potential Energy Practice

Part 1: This graph shows a ball rolling from A to G.



1. Which letter shows the ball when it has the maximum kinetic NRG? _____
2. Which letter shows the ball when it has the maximum potential NRG? _____
3. Which letter shows the ball when it has the least potential NRG? _____
4. Which letter shows the ball when it has the least kinetic NRG? _____
5. Which letter shows the ball when it has just a little more kinetic NRG than A? _____
6. Which letter shows the ball when it has just a little more potential NRG than letter C? _____
7. Which letter shows the ball when it has just a little less potential energy than letter F? _____
8. Which letter shows the ball when it has just a little more kinetic energy than letter G? _____
9. Which letter shows the ball when it has just a little less kinetic energy than letter D? _____
10. Which letter shows the ball when it has just a little less potential energy than letter C? _____
11. Which sequence correctly shows an increase in potential energy?

A. E, F, B, G	B. B, F, E, C
C. D, E, B, F	D. A, G, F, C
12. Which sequence correctly shows an increase in kinetic energy?

A. E, F, B, G	B. B, F, E, C
C. D, E, B, F	D. A, G, F, C
13. Which sequence correctly shows an decrease in kinetic energy?

A. E, F, B, G	B. B, F, E, C
C. D, E, B, F	D. A, G, F, C
14. Which sequence correctly shows an decrease in potential energy?

A. E, F, B, G	B. B, F, E, C
C. D, E, B, F	D. A, G, F, C